Recombinant mouse LRPAP protein

Catalog Number: ATGP3133

PRODUCT INFORMATION

Expression system
E.coli

Domain
29-360aa

UniProt No.
P55302

NCBI Accession No.
NP_038615

Alternative Names
Alpha-2-macroglobulin receptor-associated protein, Alpha 2 macroglobulin receptor associated protein, AA617339, AI790446, AU042172, C77774, HBP44, RAP

PRODUCT SPECIFICATION

Molecular Weight
41.4 kDa (355aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Lrpap1 also known as Alpha-2-macroglobulin receptor-associated protein. The alpha-2-macroglobulin receptor-associated protein (RAP) is a glycoprotein that binds to the alpha-2-macroglobulin receptor, as well as to other members of the low density lipoprotein receptor family. Lrpap1 acts to inhibit the binding of all know ligands for these receptors, and may prevent receptor aggregation and degradation in the endoplasmic reticulum, thereby acting as a molecular chaperone. Lrpap1 may be under the regulatory control of calmodulin, since it is able to

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bind calmodulin and be phosphorylated by calmodulin-dependent kinase II. Recombinant mouse Lspap1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

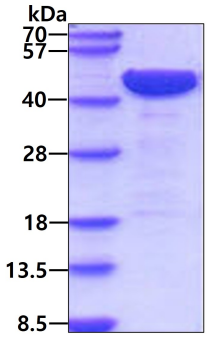
<MGSSHHHHHH SSGLVPRGSH MGS>QPIAGHG GKYSREKNEP EMAAKRESGE EFRMEKLNQL WEKAKRLHLS PVRLAELHSD LKIQERDELN WKKLKVEGLD KDGEKEAKLI HNLNVILARY GLDGRKDAQM VHSNALNEDT QDELGDPRLE KLWHKAKTSG KFSSEELDKL WREFLHYKEK IQEYNVLLDT LSRAEEGYEN LLSPSDMAHI KSDTLISKHS ELKDRLRSIN QGLDRLRKVS HQGYGSTTEF EEPRVIDLWD LAQSANFTEK ELESFREELK HFEAKIEKHN HYQKQLEISH QKLKHVESIG DPEHISRNKE KYVLLEEKTK ELGYKVKKHL QDLSSRVSRA RHNEL

General References

Strickland D.K., et al. (1991) J. Biol. Chem. 266:13364-13369.
Van Leuven F., et al. (1998) Genomics 52:145-151.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.